

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

Claims 1-9 (canceled).

Claim 10 (currently amended) A synchronous induction motor comprising:

a stator equipped with a stator winding;

a rotor which is secured to a rotating shaft and which rotates in the stator;

a secondary conductor provided around the rotor yoke constituting the rotor; and

~~a permanent magnet embedded in the rotor yoke which does not have a length radially disposed; and~~

~~secondary~~ permanent magnets embedded in the rotor yoke, each said magnet having a linear shape and provided symmetrically about a line that connects two magnetic poles, wherein the ~~secondary~~ permanent magnets have lengths which are radially disposed, and wherein the ~~secondary~~ permanent magnets are substantially adjacent to the rotating shaft,

wherein a magnetic field produced by the permanent ~~magnet~~ magnets does not pass through the rotating shaft.

Claim 11 (currently amended) A synchronous induction motor comprising:

a stator equipped with a stator winding;

a rotor which is secured to a rotating shaft and which rotates in the stator;

a secondary conductor provided around the rotor yoke constituting the rotor; and

~~a permanent magnet embedded in the rotor yoke which does not have a length radially disposed; and~~

secondary permanent magnets embedded in the rotor yoke, each said magnet having a linear shape and provided symmetrically about a line that connects two magnetic poles, wherein the ~~secondary~~ permanent magnets have lengths which are radially disposed, and wherein the ~~secondary~~ permanent magnets are substantially adjacent to the rotating shaft,

wherein a magnetic field produced by the permanent ~~magnet~~ magnets bypasses the rotating shaft.

Claim 12 (currently amended) A synchronous induction motor comprising:

a stator equipped with a stator winding;

a rotor which is secured to a rotating shaft and which rotates in the stator;

a secondary conductor provided around the rotor yoke constituting the rotor; and

~~a permanent magnet embedded in the rotor yoke which does not have a length radially disposed; and~~

secondary permanent magnets embedded in the rotor yoke, each said magnet having a

linear shape provided symmetrically about a line that connects two magnetic poles, wherein the ~~secondary~~ permanent magnets have lengths which are radially disposed, and wherein the ~~secondary~~ permanent magnets are substantially adjacent to the rotating shaft,

wherein a magnetic field produced by the permanent ~~magnet~~ magnets passes through only the rotor yoke, excluding the rotating shaft.

Claims 13-15 (canceled).

Claim 16 (currently amended) A synchronous induction motor comprising:

a stator equipped with a stator winding;

a rotor which is secured to a rotating shaft and which rotates in the stator;

a secondary conductor provided around the rotor yoke constituting the rotor; and

~~a permanent magnet embedded in the rotor yoke which does not have a length radially disposed; and~~

~~secondary~~ permanent magnets embedded in the rotor yoke, each said magnet having an arcuate shape curving around the rotating shaft and provided symmetrically about a line that connects two magnetic poles,

wherein the ~~secondary~~ permanent magnets are substantially adjacent to the rotating shaft, and

wherein a magnetic field produced by the permanent ~~magnet~~ magnets does not pass

through the rotating shaft.

Claim 17 (currently amended) A synchronous induction motor comprising:

- a stator equipped with a stator winding;
- a rotor which is secured to a rotating shaft and which rotates in the stator;
- a secondary conductor provided around the rotor yoke constituting the rotor; and
- ~~a permanent magnet embedded in the rotor yoke which does not have a length radially~~

~~disposed; and~~

~~secondary~~ permanent magnets each having an arcuate shape curving around the rotating shaft and provided symmetrically about a line that connects two magnetic poles,

wherein the ~~secondary~~ permanent magnets are substantially adjacent to the rotating shaft,

and

wherein a magnetic field produced by the permanent ~~magnet~~ magnets bypasses the rotating shaft.

Claim 18 (currently amended) A synchronous induction motor comprising:

- a stator equipped with a stator winding;
- a rotor which is secured to a rotating shaft and which rotates in the stator;
- a secondary conductor provided around the rotor yoke constituting the rotor; and
- ~~a permanent magnet embedded in the rotor yoke which does not have a length radially~~

~~disposed;~~ and

~~secondary~~ permanent magnets embedded in the rotor yoke, each said magnet having an arcuate shape curving around the rotating shaft provided symmetrically about a line that connects two magnetic poles,

wherein the ~~secondary~~ permanent magnets are substantially adjacent to the rotating shaft,  
and

wherein a magnetic field produced by the permanent ~~magnet~~ magnets passes through only the rotor yoke, excluding the rotating shaft.